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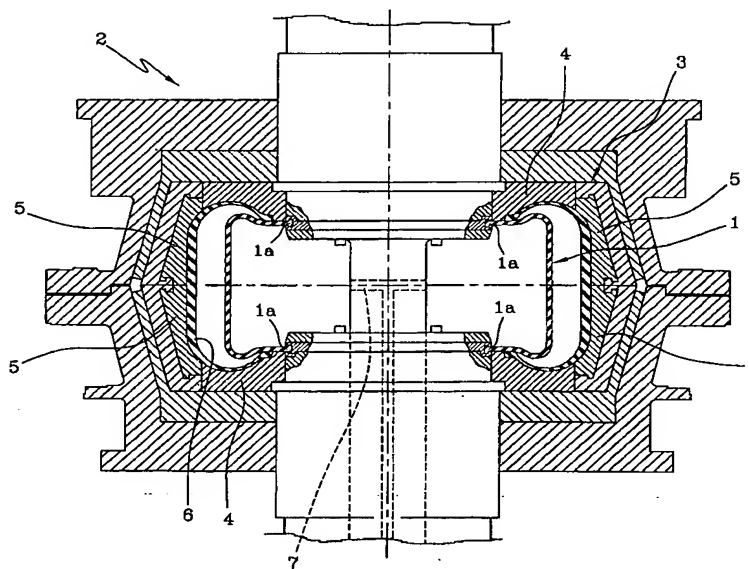
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(54) Title: AN EXPANDABLE BLADDER FOR TYRE-CURING APPARATUSES, A MANUFACTURING METHOD THEREOF, AND A PROCESS FOR MANUFACTURING TYRES FOR VEHICLE WHEELS



(57) Abstract: An expandable bladder (1) comprises at least one first layer (8) of butyl material and one second layer (9) of silicone material, radially external to the first layer. The first and second layers have an undulated interface profile (10) defining mechanical-engagement elements (10a) between the first (8) and second (9) elastomer materials. Also disclosed is a process for manufacturing said bladder as well as a tyre moulding and vulcanising apparatus (2) incorporating the bladder.